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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/411,070	10/04/1999	99 ROYCE E. SLICK 36J.P229		· 7819		
5514 75	590 04/07/2004	EXAMINER				
FITZPATRICK CELLA HARPER & SCINTO			STULBERG	STULBERGER, CAS P		
30 ROCKEFELLER PLAZA NEW YORK, NY 10112			ART UNIT	PAPER NUMBER		
		2132	12			
			DATE MAILED: 04/07/2004			

Please find below and/or attached an Office communication concerning this application or proceeding.

In

		Application	n No.	Applicant(s)	dp		
•		09/411,070)	SLICK ET AL.	V		
	Office Action Summary	Examiner		Art Unit			
••	•	Cas Stulbe	erger	2132			
	The MAILING DATE of this communication ap	pears on the	cover sheet with the c	orrespondence addres	is		
Period for	• •						
THE N - Extens after S - If the p - If NO p - Failure Any re	PRTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION is ons of time may be available under the provisions of 37 CFR 1. IX (6) MONTHS from the mailing date of this communication. Deriod for reply specified above is less than thirty (30) days, a reperiod for reply is specified above, the maximum statutory period to reply within the set or extended period for reply will, by statuply received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	.136(a). In no ever ply within the statut d will apply and will tte, cause the applic	nt, however, may a reply be tintory minimum of thirty (30) day expire SIX (6) MONTHS from cation to become ABANDONE	nely filed s will be considered timely. the mailing date of this commu D (35 U.S.C. § 133).	nication.		
Status							
1) 又	Responsive to communication(s) filed on 12.	January 2004	<u>.</u>				
/		is action is no					
·—	Since this application is in condition for allow	ance except f	or formal matters, pro	osecution as to the me	rits is		
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositio	on of Claims						
4)🛛	Claim(s)	ո the applicati	on.				
4	la) Of the above claim(s) is/are withdra	awn from con	sideration.				
5)	Claim(s) is/are allowed.						
• —	Claim(s) <u>1-100, 122-140</u> is/are rejected.						
	Claim(s) is/are objected to.						
8) 🗌	Claim(s) are subject to restriction and/	or election re	quirement.				
Application	on Papers				·		
•	The specification is objected to by the Examir						
	The drawing(s) filed on is/are: a)☐ ac						
	Applicant may not request that any objection to the						
	Replacement drawing sheet(s) including the corre						
11)[]	The oath or declaration is objected to by the E	=xaminer. Not	te the attached Office	e Action of form PTO-1	, 5 2.		
Priority u	nder 35 U.S.C. § 119						
a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents. 2. Certified copies of the priority documents. 3. Copies of the certified copies of the prince application from the International Buresee the attached detailed Office action for a list	nts have beer nts have beer iority docume au (PCT Rule	n received. n received in Applicat nts have been receiv e 17.2(a)).	ion No ed in this National Sta	ge		
Attachment							
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)		4) Interview Summary Paper No(s)/Mail D				
3) Inform	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/0 No(s)/Mail Date	8)		Patent Application (PTO-152	2)		

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DETAILED ACTION

1. This action is responsive to communications: application, filed 10/04/99; request for reconsideration filed 01/12/2004.

2. Claims 1-100, and 122-140 are pending in the case. Claims 1, 2, 13, 16, 17, 29, 32, 33, 45, 48, 49, 61, 64, 65, 76, 79, 80, 92, 95, 96, 122, 125, 126, and 138 are independent claims.

Response to Arguments

3. Applicant's arguments, see pages 2-6 of the Request for Reconsideration, filed 01/12/2004, with respect to the rejection(s)of claim(s) 1, 16, 32, 48, 64, 79, 95, 126 and 2-7, 10-13, 17-24, 27-29, 33-38, 42-45, 49-55, 59-61, 65-70, 74-76, 80-86, 90-92, 96-101, 122, 126-132, and 136-138 under 35 U.S.C 102e and 35 U.S.C. 103a have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of newly found prior art.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1, 16, 32, 48, 64, 79, 95, and 126 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 5,633,932 to Davis, and further in view of U.S. Patent No 5,956,407 to Slavin.

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6. In regards to claims 1, 16, 32, 48, 64, 79, 95, and 126, Davis discloses a system including a sending node, a printing node, and a communication link coupling these nodes together in a network fashion. The sending node has access to the public key of the printing node and uses this public key to encrypt a header and a document before transmission to the printing node over the communication link (Davis: Abstract). This meets the limitation of "encrypting the data using a first key, the first key being a public key of a first private key/public key pair, a private key of the first private key/public key pair being primarily in the sole possession of the intended image output device; and a transmitting step of transmitting the data to the intended image output device." Davis however does not disclose "encrypting the data using a second key, the second key being a public key of a second private key/public key pair, a private key of the second private key/public key pair being primarily in the sole possession of the intended recipient of the image."

Slavin discloses a message is encrypted using a first public key encryption system to generate an intermediate encrypted message, which is then encrypted again using a second public key encryption system (Slavin: column 13, lines 23-37). This meets the limitation of "encrypting the data using a second key, the second key being a public key of a second private key/public key pair, a private key of the second private key/public key pair being primarily in the sole possession of the intended recipient of the image."

It would have been obvious to one having ordinary skill in the art at the time the invention was made to combine the method encrypting a message as disclosed by Davis with the method of doubly encrypting the messages with two different encryption keys as disclosed by Slavin so that only the receiver may decode the encoded message (Slavin: column 3, lines 37).

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- 7. Claims 2-7, 10-13, 17-24, 27-29, 33-38, 42-45, 49-55, 59-61, 65-70, 74-76, 80-86, 90-92, 96-101, 122, 126-132, and 136-138 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 6,378,070 B1 to Chan et al., and further in view of U.S. Patent No. 5,956,407 to Slavin.
- 8. In regards to claims 2-7, 10-13, 17-24, 27-29, 33-38, 42-45, 49-55, 59-61, 65-70, 74-76, 80-86, 90-92, 96-101, 122, 126-132, and 136-138, Chan discloses when the user specifies that a document is to be printed, a special print job is created in which the document in encrypted using a session key. The session key is then encrypted using the intended recipient's public key. Then the encrypted session key, the encrypted document is transmitted to a print server where the print job is held (Chan: Abstract). The session key meets the limitation of "a first encrypting step of encrypting the data using a first key." The recipient's public key meets the limitation of "the third key being a public key of a second private key/public key pair, a private key of the second private key/public key pair being primarily in the sole possession of the intended recipient of the image; and a transmitting step of transmitting the encrypted data and the twice-encrypted first key to the intended image output device." Chan however does not disclose "the second key being a public key of a first private/public key pair, a private key of the first private key/public key pair being primarily in the sole possession of the intended image output device."

Slavin discloses a message is encrypted using a first public key encryption system to generate an intermediate encrypted message, which is then encrypted again using a second public key encryption system (Slavin: column 13, lines 23-37). This meets the limitation of "the

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second key being a public key of a first private/public key pair, a private key of the first private key/public key pair being primarily in the sole possession of the intended image output device."

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It would have been obvious to one having ordinary skill in the art at the time the invention was made to combine the method encrypting a symmetric encryption key as disclosed by Chan with the method of doubly encryption as disclose by Slavin only the receiver may decode the encoded message (Slavin: column 3, lines 37).

- 9. In regards to claims 3, 34, 66, and 97, Chan discloses a random number is generated to enact the encryption. The random number constitutes a session key (Chan: column 6, lines 23-26). This meets the limitation of "wherein the first key is randomly generated."
- 10. In regards to claims 10, 24, Chan discloses using a message digest function such as the Secure Hash Algorithm, MD5, CAST, or IDEA (Chan: column 6, lines 14-35)..
- 11. In regards to claims 23, 55, 86, and 132, Chan discloses a smart card which decrypts the session key and the private key is stored on the smart card and never needs to leave the smart card (Chan: column 7, lines 20-54)
- 12. Claims 8-10, 14-15, 24-26, 30-31, 29-41, 46-47, 56-58, 62-63, 71-73, 77-78, 87-89, 93-94, 102-104, 123-124, 133-135 and 139-140 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 6,378,070 B1 to Chan et al. in view of Slavin as applied to claims 2-7, 10-13, 17-24, 27-29, 33-38, 42-45, 49-55, 59-61, 65-70, 74-76, 80-86, 90-92, 96-101,

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122, 126-132, and 136-138 above, and further in view of U.S. Patent No. 6,243,466 B1 to Young et al.

In regards to claims 2-7, 10, 13, 17-22, 24, 29, 33-38, 45, 49-54, 61, 65-70, 76, 80-85, 92, 96-101, 122, 126-131, and 138 Chan does not disclose sending the header through email. Young discloses sending a certified piece of mail. The packet sent consists of a header indicating the certified email, the encryption of the email under the sender's own certified public key, other information, and is signed using the sender's own private key (Young: column 8, lines 47-67). Signing with the sender's private key meets the limitation of "information related to the identity of at person" since only the sender's public key can decrypt the signature. This also meets the limitation of "transmitting the header by email."

It would have been obvious to one having ordinary skill in the art at the time the invention was made to combine the system of using email as disclosed by Young with the method of creating a hash and encryption as disclosed by Chan in order to provide a very high level of security (Young: Abstract).

Conclusion

13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cas Stulberger whose telephone number is (703) 305-8034. The examiner can normally be reached on Monday - Friday, 9:00A.M. - 5:00P.M.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gilberto Barron can be reached on (703) 305-1830. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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